



Roundwood Park School Curriculum Map – Science (YR7)

A curriculum that stimulates curiosity, values diversity and offers challenge.

We help every student to love learning for life, to follow their passions and to reach their full potential.

Year 7	Autumn Term 1	Autumn Term 2	Spring Term 1	Spring Term 2	Summer Term 1	Summer Term 2
Unit of Work	<ul style="list-style-type: none"> - Introduction to Science - Craters investigation - Cells - Particles - Forces and pressure 	<ul style="list-style-type: none"> - Movement - The periodic table 	<ul style="list-style-type: none"> - Energy transfers and costs -Human reproduction -Separating mixtures 	<ul style="list-style-type: none"> -Waves and Sound -Plant reproduction 	<ul style="list-style-type: none"> -Electricity -Acids and alkalis -Speed 	<ul style="list-style-type: none"> -Variation -Earth structure -Interdependence
Key Knowledge Concepts & Practical Skills	Health and safety in a lab Using Bunsen burners Plan an investigation Collect data Analyse data Evaluate data and methods Animal and plant cells Specialised cells Microscopes Solids, liquids and gases Changes of state Diffusion Equilibrium Resultant forces Friction Pressure and pressure calculations -	Human skeleton Joints Dissection (chicken wing) Uses of the periodic table Groups and periods Metals and non-metals Alkali metals Halogens	Conservation of mass Energy stores Conservation of energy Energy transfer Fuel costs Renewable/non-renewable energy resources Menstrual cycle Fertilisation Human reproductive systems Pure and impure substances Elements, mixtures and compounds Filtration Evaporation Distillation Chromatography	Wavelength Amplitude Frequency Speed of sound Echoes Longitudinal waves Transverse waves Displacement Deformation Transverse waves Longitudinal waves Ultrasound Plant reproductive systems Seed dispersal Pollination	Circuit symbols Series circuits Parallel circuits Current Voltage Resistance Electrical safety Acids Alkalis pH scale Neutralisation Balanced forces Unbalanced forces Distance-time graphs Relative motion	Inherited characteristics Acquired characteristics Continuous variation Discontinuous variation Genetics Environment Layers of earth Weathering Erosion Rock types Rock Cycle Food chains Food webs Ecosystems Predator/prey relationships Competition
Key Vocabulary	Year 7 students should all take a look at their Year 7 Science topic checklists booklets for the key terms for each unit of work					
ASPIRE Habits	The ASPIRE habits we focus on in Year 7 are: thinking creatively, questioning and taking risks					
Reading Opportunities	Students are encouraged to read for interest in science! Our school library has a range of excellent books you can take a look at. See our super-curriculum reading journeys that are up in all science labs for some suggested books for Year 7 students.					